

PC6 Waterborne Urethane Tint Base



Description

PC6 Waterborne Urethane Tint Base System consist of a three-base solid color and a three base metallic color system. Both tint systems are available in all standard Precision Coatings sheens including gloss, semi-gloss, satin, eggshell and matte/flat and are designed to be used with Chromaflo's 896 Industrial Colorants. For detail instructions on tinting, see Precision Coatings Guidance: PC3 Solvent Based Polyurethane and PC6 Water Bourne Urethane Solid and Metallic Tint Systems.

Features & Benefits

- Single Component Pre-Acted
- Waterborne Polyurethane Dispersion
- Multi-Base Solid & Metallic Tint System
- Interior / Exterior
- Soap & Water Clean up
- Very Low Odor - Low VOC
- Excellent Adhesion & Chemical Resistance
- No Isocyanates
- LEED NC 2009 Compliant
- Field & Shop Application
- Solid & Metallic Colors
- Compatible With Chromaflo 896 Colorants

Color & Finish

Color	Finish
Neutral	Eggshell, Semi-Gloss, Satin
Light	Semi-Gloss, Satin
Deep	Semi-Gloss, Satin

Tint Bases

Precision Coatings offers three tint bases for custom tinting solid colors. Each tint base is available in the full range of sheens including: Gloss, Semi-Gloss, Satin, Eggshell and Matte/Flat.

- Light Tint Base: Used for light colors – up to 4 ounces of colorant is added.
- Deep Tint Base: Used for medium colors – up to 8 ounces of colorant is added.
- Neutral Tint Base: Used for deep and bright colors – up to 16 ounces of colorant is added. This base has no white pigment. Bright colors formulated with the Neutral Tint Base may require multiple coats for adequate hiding.

Colorants

Suggested Colorant System: Chromaflo Chroma-Chem 896 Colorants

Surface Preparation

Best results are achieved when PC6 Waterborne Urethane is applied over a primer such as Precision's DTM 1300 High Build Primer for exterior use or DTM 1600 for interior use. DTM 1300 High Build Primer and DTM 1600 are UV resistant primers for use under solid colors as well as metallic and iridescent colors which are translucent.

Good painting practices require that before applying coatings a test or mock-up be performed to ensure that adhesion, appearance and color meet the expectations of the owner. Coating performance is proportional to the degree of surface preparation performed prior to priming the substrate. All surfaces must be clean, dry and free of oil, grease, dirt, salt deposits or other contamination. Recommended preparation is as follows:

Steel – Clean the surface of all foreign material SSPC-SP1 followed by SSPC-SP2, SP3, SP6, SP7, SP11, SP14 or SP15. Precision Coatings 02150 Metal Conditioner may be used to clean and treat steel substrates to eliminate oil, soap film, grease, and flash rusting.

Aluminum - Remove all contaminants per SSPC-SP1 and abrade using hand tool, power tool or SSPC-SP16 to obtain a profile equivalent to 220 grit sandpaper. DTM 1300 High Build Primer should be used over prepared aluminum.

Galvanized Steel – Preparation shall meet ASTM D6386 – 10. Remove all contaminants per SSPC-SP1, check for the presence of chromates or other passivation treatments per SSPC-SP16. If passivation treatment exists, brush-off blast cleaning per SSPC-SP16 is required. Complete removal of chromates or other passivating treatments must be confirmed by testing (SSPC-SP16 or ASTM B 201) prior to coating application.

Concrete, Masonry, MDF, Drywall – Surface must be clean, dry and free of any dirt, dust, grease, oil, wax, mildew, disintegrated or chalky materials or other contaminants.

Previously Coated Surfaces - Surface must be clean, dry, and free of any dirt, dust, grease, oil, wax, mildew, disintegrated or chalky materials or other contaminants. Aged coatings should be abraded to achieve an acceptable profile to provide adequate adhesion for the primer and topcoat.

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Instructions

After colorant has been added, stir or shake thoroughly to ensure uniform mixture and colorant has been completely mixed into the base.

Reduction is not necessary. However, paint may be reduced up to 5% by volume using tap water.

Application For Solid Color

Environmental Conditions: Air and surface temperature must be above 50° F and no more than 95° F. Surface temperature must be at least 5° F (3° C) above the dew point.

Application: Solid colors may be applied by spray, roller and brush application. Metallic colors should be applied by spray application only. Allow a 5 to 10-minute flash time between coats if spray applied. PC6 Waterborne Urethane should be applied to achieve a recommended dry film thickness between 1.0 to 3.0 mils. For detailed metallic and iridescent application instructions, see Precision Coatings Guidance: "Metallic and Iridescent Finishes."

Spray Gun Set-Up & Pressure

Type	Fluid Tip	Spraying Pressure
Siphon Feed	1.4mm – 1.7mm	40-65-PSI
Gravity Feed	1.3mm – 1.4mm	40-65-PSI
HVLP Siphon	1.6mm – 1.8mm	max. 10 PSI @ the air cap
HVLP Gravity	1.3mm – 1.5mm	max. 10 PSI @ the air cap
Pressure Pot	1.1 mm- 1.3 mm	29 PSI - 58 PSI
Airless Spray	.011" - .015"	2500 PSI 100 mesh filter

* For solid colors only, not recommended for application of metallics

Dry Times

Dry Times @ 70° F (21° C) & 50% RH	
Dust Free	15 Minutes
Tack Free	1 Hours
Dry Time	24 Hours
Full Cure	14 Days
Recoat	Unlimited - no recoat time necessary Sanding will become necessary after 24 hours.

Clean Up

Clean all tools and spray equipment immediately after use with soap and warm water. Acetone may be used as a final solvent rinse.

Limitations

Protect installed coating from rain, freezing, and continuous high humidity until completely dry. Do not apply in freezing conditions or if rain is imminent. Do not apply if elevated levels of water vapor transmission may exist following application. At water vapor transmission levels greater than 4 perms, blistering or bubbles may occur. Do not use below grade, on horizontal surfaces or in areas of ponding water.

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Tint Base**



Technical Data	
% Solids by Volume	40%
Coating VOC (as packaged)	Less than 50 g/l (less water & exempt compounds)
Coating VOC (as applied)	Less than 50 g/l (less water & exempt compounds)
Resin Type	Urethane Dispersion
Components	Single Component
Shelf Life	One Year (Unopened)
Flash Point	144° F, 62° C
Recommended Dry Film	1.0 mils to 3.0 mils DFT
Theoretical Coverage	641 – 213 sq ft at recommended DFT (no loss)

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